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Attorney Docket No. Q58148
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Tatsuro AKABANE, et al.

Appln. No.: 09/518,099

Group Art Unit: Not yet assigned

Filed: March 03, 2000

Examiner: Not yet assigned

For: PRINT SYSTEM AND PRINT SYSTEM CONTROL METHOD

SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith please find 20 sheets of formal drawings, Figs. 1-26. The Examiner is respectfully requested to acknowledge receipt of these formal drawings.

Respectfully submitted,

Darryl Mexic
Registration No. 23,063

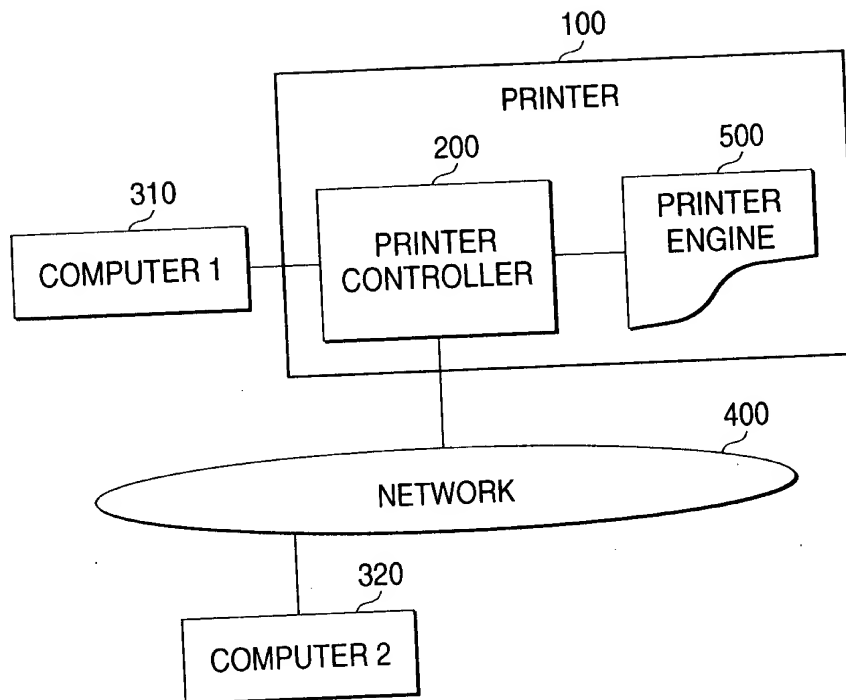
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Date: April 26, 2000

APPROVED	O.G. FIG.	
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FIG. 1



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FIG. 2

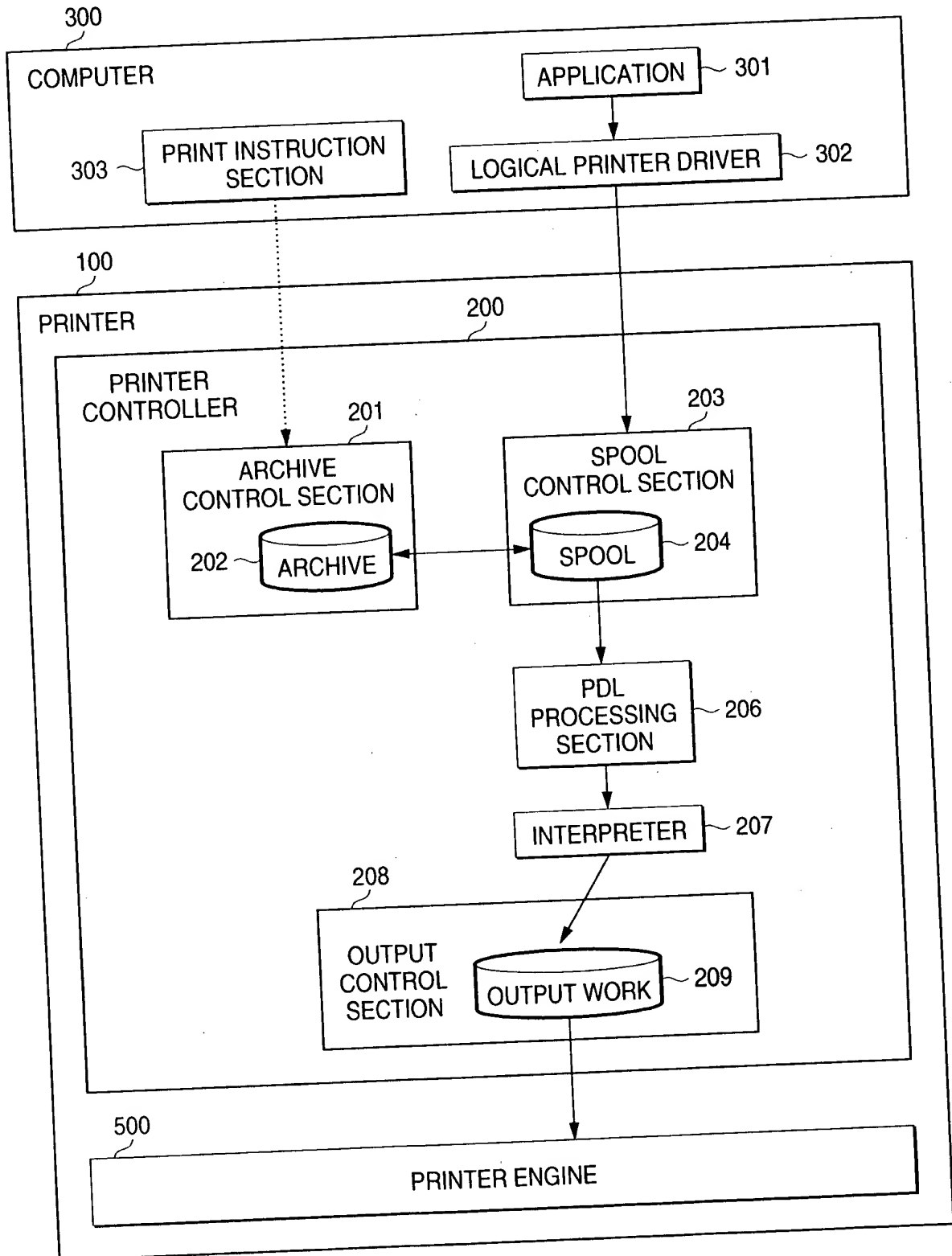


FIG. 3

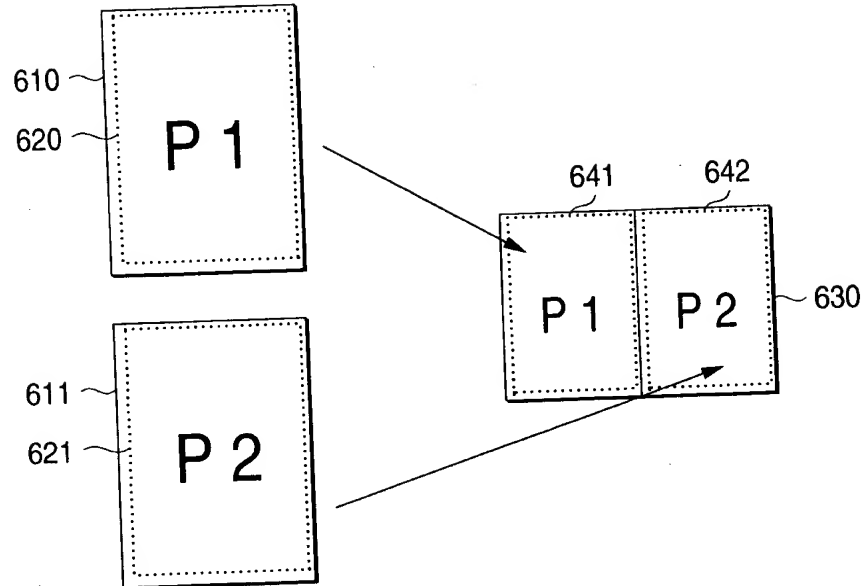


FIG. 4

Print information details

Page assignment

☐ 1up ☐ 2up ☒ 4up ☐ Saddle stitch

Page assignment type

☒ Type 1

1	2
3	4

☐ Type 2

1	3
2	4

☐ Type 3

2	1
4	3

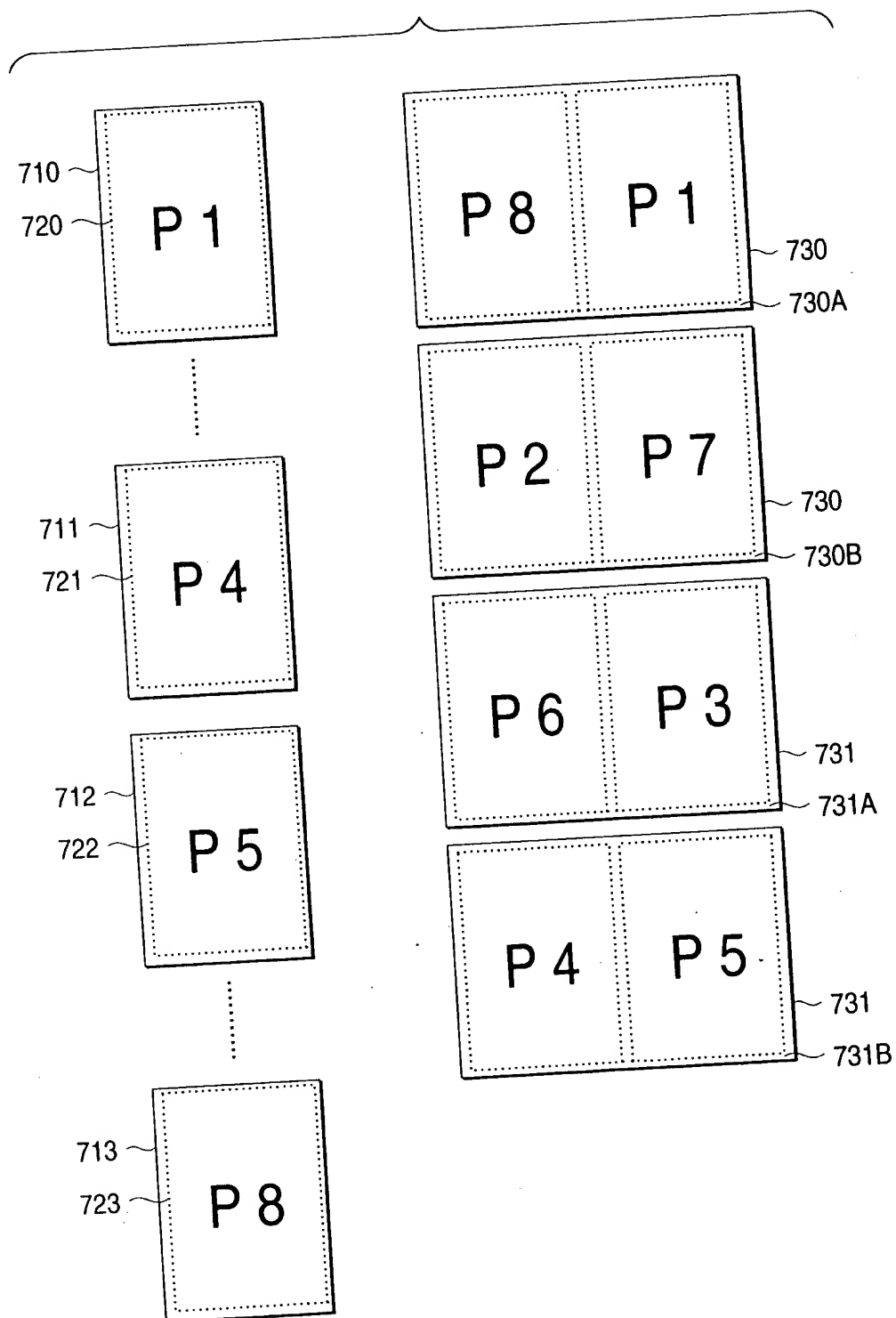
☐ Type 4

3	1
4	2

Reset

OK Cancel

FIG. 5



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FIG. 6

ITEM		SETTING		SETTING EXAMPLE	
		CONTENTS	VALUE	CONTENTS	VALUE
800	PRINT MODE	PRINT	NO	YES	ModeP = 1
801			YES		
802		STORAGE	NO	YES	ModeA = 1
			YES		
810	STORAGE FORMAT	PDL	NO	YES	ArchiveP = 1
811			YES		
812		DOT IMAGE	NO	YES	ArchiveD = 1
			YES		
820	NUMBER OF COPIES		INTEGER	1 COPY	Copy = 1
830	PAPER SIZE		A4	A3	PAPER SIZE = 1
			A3		
			B5		
			B4		
840	PAPER FEED SECTION		PAPER FEED SECTION 1	PAPER FEED SECTION 1	INPUT = 0
			PAPER FEED SECTION 2		
850	PAPER DISCHARGE SECTION		PAPER DISCHARGE SECTION 1	PAPER DISCHARGE SECTION 1	OUTPUT = 0
			PAPER DISCHARGE SECTION 2		
861	OUTPUT FORMAT		STANDARD	2 UP	TYPE = 1
860			2 UP		
862			4 UP		
863			SADDLE STITCH		
864	DOUBLE-SIDE PRINT		NO	YES	DUPLEX = 1
870			YES		
880	BINDING POSITION		LEFT TO RIGHT	LEFT TO LIGHT	TUMBLE = 1
			UP TO BOTTOM		
890	STAPLE		NONE	UPPER-LEFT CORNER	STAPLE = 1
			UPPER-LEFT CORNER		
			TWO-CENTER PARTS		
			UPPER-RIGHT CORNER		

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FIG. 7

910	HEADER		
920	PAGE 1	DRAWING DATA	921
		OUTPUT INSTRUCTION	922
930	PAGE 2	DRAWING DATA	931
		OUTPUT INSTRUCTION	932
		⋮	
940	PAGE N-1	DRAWING DATA	941
		OUTPUT INSTRUCTION	942
950	PAGE N	DRAWING DATA	951
		OUTPUT INSTRUCTION	952

FIG. 8

1010	HEADER		
1020	PAGE 1	DRAWING DATA	1021
		OUTPUT INSTRUCTION	1022
1030	PAGE 2	DRAWING DATA	1031
		OUTPUT INSTRUCTION	1032
	⋮		
1040	PAGE N-1	DRAWING DATA	1041
		OUTPUT INSTRUCTION	1042
1050	PAGE N	DRAWING DATA	1051
		OUTPUT INSTRUCTION	1052

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FIG. 9

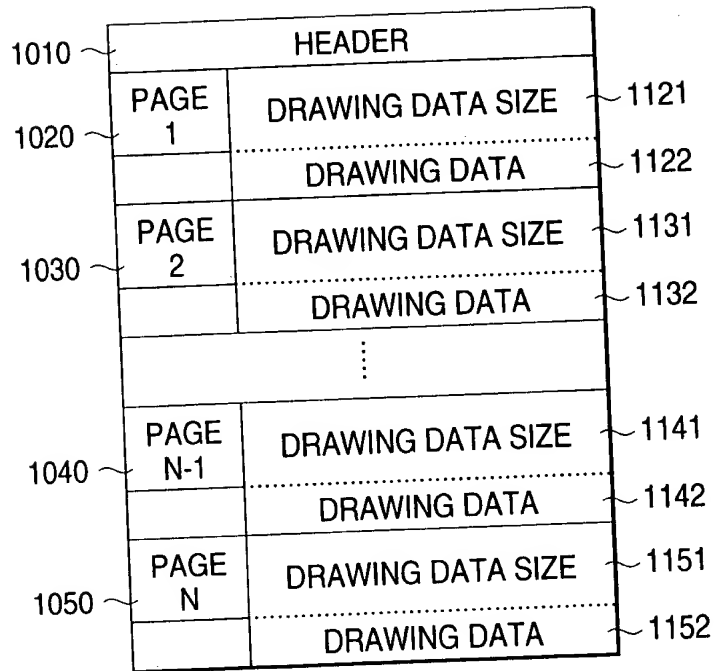


FIG. 10

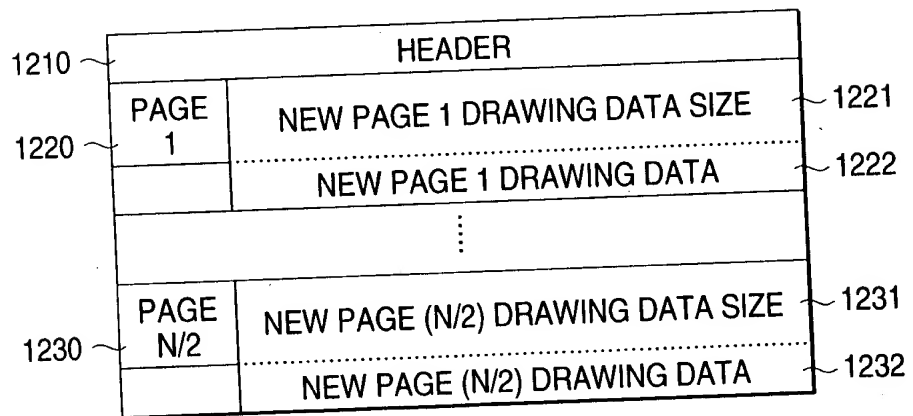
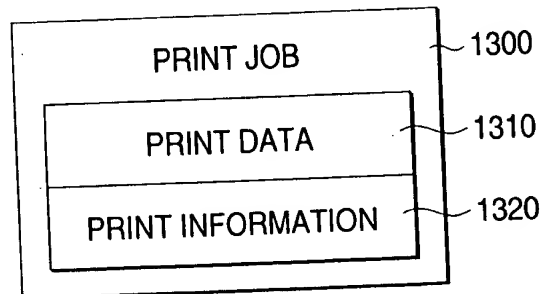
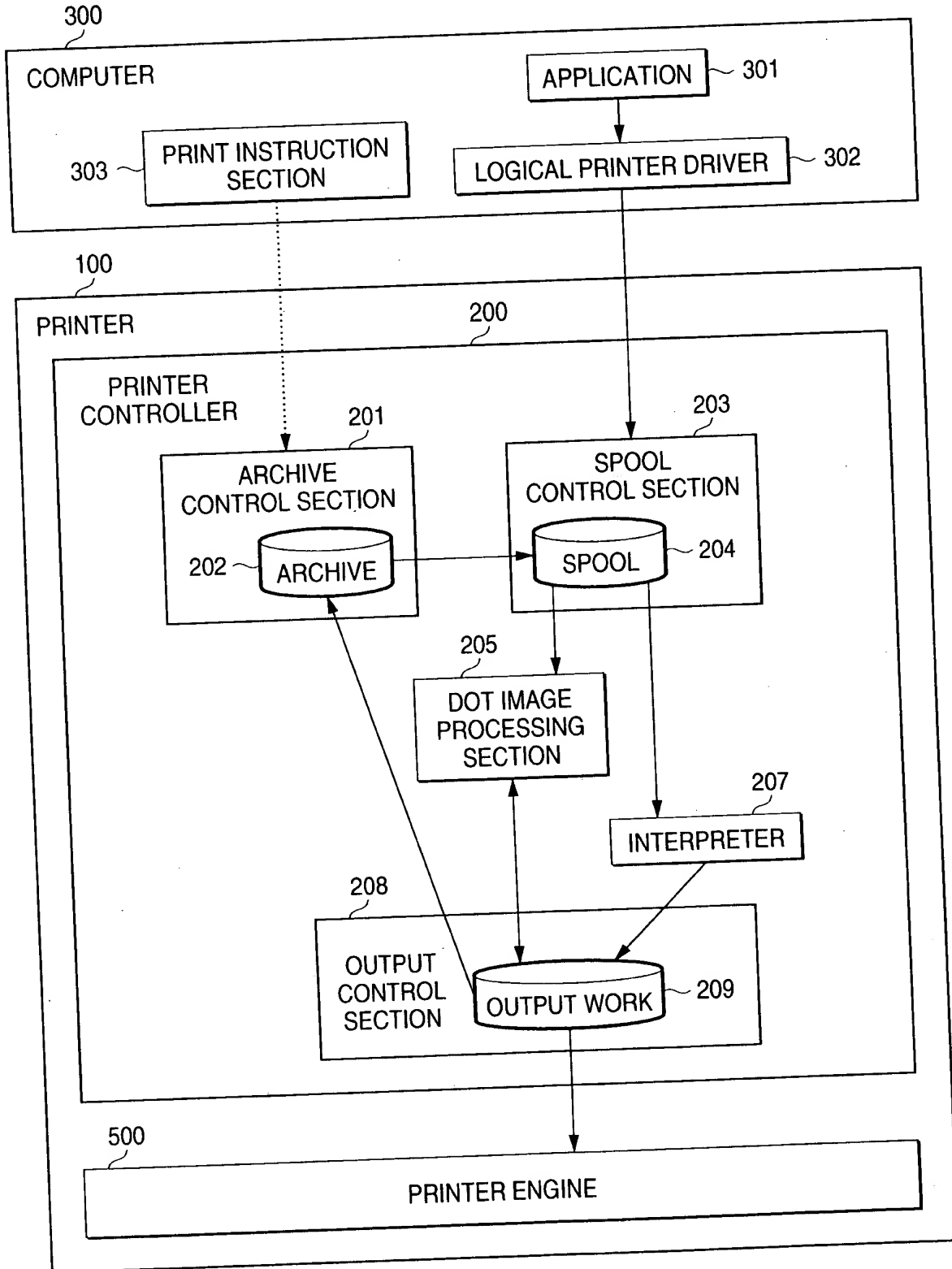


FIG. 11



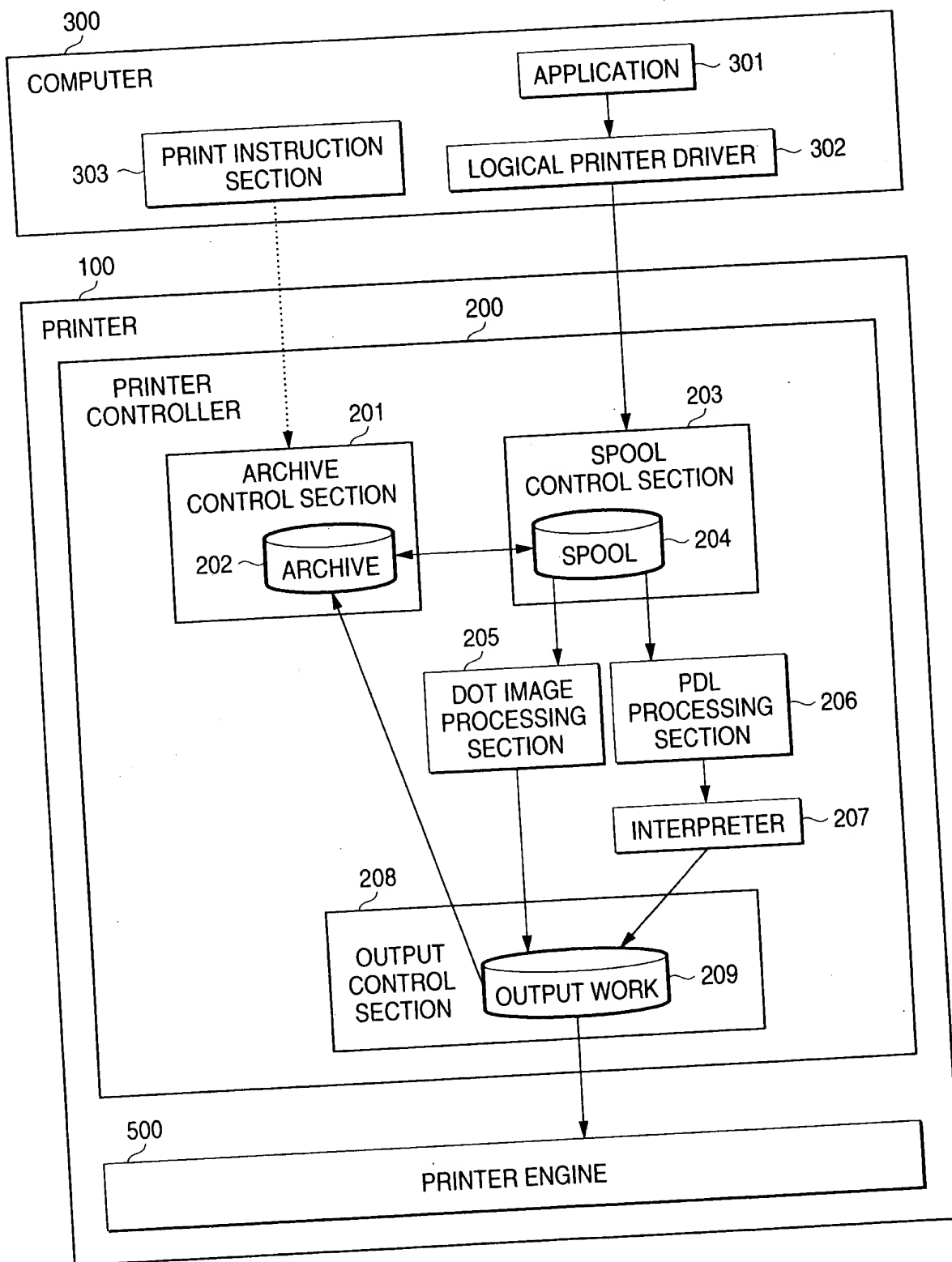
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FIG. 12



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FIG. 13



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FIG. 14

FIG. 14

PRINT INFORMATION			SETTING EXAMPLE	
SETTING ITEM	CONTENTS	VALUE	CONTENTS	VALUE
1400 PRINT MODE	PRINT	1	PRINT & STORAGE	PRINT MODE = 3
	STORAGE	2		
	PRINT & STORAGE	3		
1410 NUMBER OF COPIES	n	INTEGER	3 COPIES	COPIES = 3
1420 PRINT IN COPY UNITS	YES	1	YES	COLLATE = 1
	NO	0		
1430 PAPER THICKNESS	THIN	1	THIN	PAPER THICK = 1
	NORMAL	2		
	THICK	3		
	AUTOMATIC SELECTION	0		
1440 PAPER FEED SECTION	PAPER FEED SECTION 1	1	PAPER FEED SECTION 1	INPUT TYPE = 1
	PAPER FEED SECTION 1	2		
	AUTOMATIC SELECTION	0		
1450 PAPER DISCHARGE SECTION	PAPER DISCHARGE SECTION 1	1	PAPER DISCHARGE SECTION 2	OUTPUT TYPE = 2
	PAPER DISCHARGE SECTION 1	2		
	AUTOMATIC SELECTION	0		
1460 SINGLE SIDE/DOUBLE SIDE PRINT	SINGLE SIDE PRINT	0	DOUBLE SIDE PRINT	DUPLEX = 1
	DOUBLE SIDE PRINT	1		
1470 BINDING POSITION (EFFECTIVE ON THE DOUBLE SIDE PRINT)	LONG-SIDE BINDING	0	LONG-SIDE BINDING	TUMBLE = 0
	SHORT-SIDE BINDING	1		
1480 PAPER DISCHARGE OFFSET	YES	1	YES	OUTPUT OFFSET = 1
	NO	0		
1490 STAPLE	NONE	0	NONE	STAPLE = 0
	UPPER-LEFT CORNER OF PAPER IN PORTABLE ORIENTATION	1		
	UPPER-LEFT CORNER OF PAPER IN LANDSCAPE ORIENTATION	2		
	TWO-CENTER PARTS	3		
1500 PUNCH HOLE	NONE	0	2 HOLES	PUNCH = 2
	2 HOLES	2		
	3 HOLES	3		
1510 FOLD	NONE	0	NONE	FOLD = 2
	FOLD IN TWO	1		
	FOLD IN Z	2		
1520 PAGE ASSIGNMENT	1 UP	1	4 UP	ASSIGN PAGES = 4
	2 UP	2		
	4 UP	4		
	SADDLE STITCH	101		
1530 PAGE ASSIGNMENT TYPE	TYPE 1	1	NONE	ASSIGN TYPE = 1
	TYPE 2	2		
	TYPE 3	3		
	TYPE 4	4		
1540 PRINT DATA STORAGE LOCATION	FILE NAME	c:\arc\file1.ps		

FIG. 15

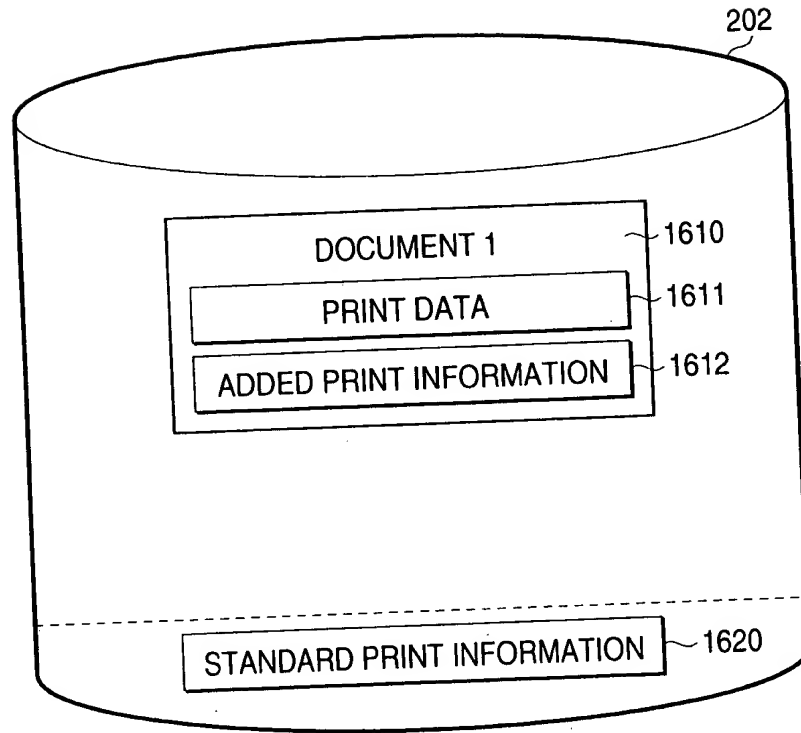
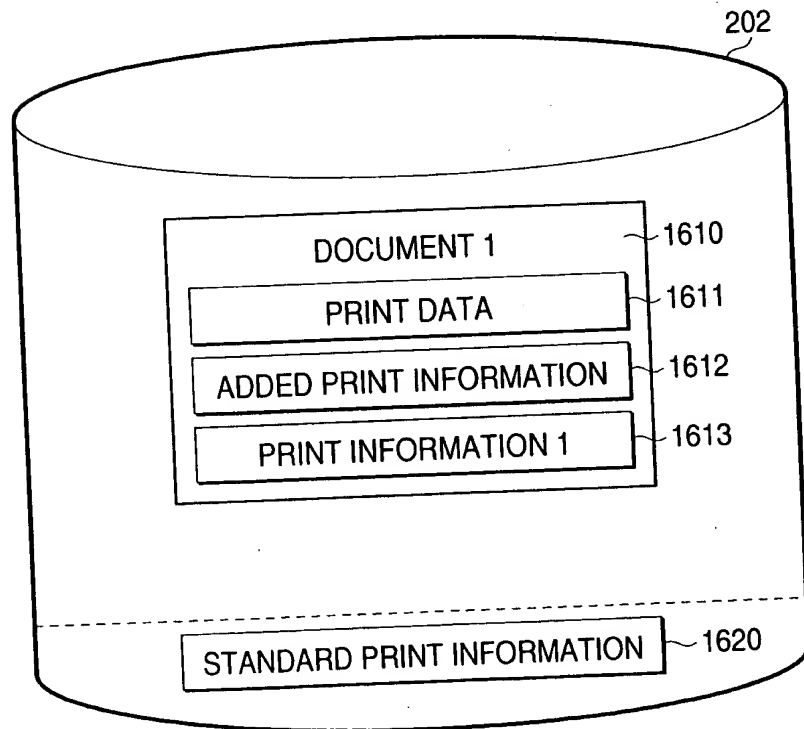


FIG. 16



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FIG. 17

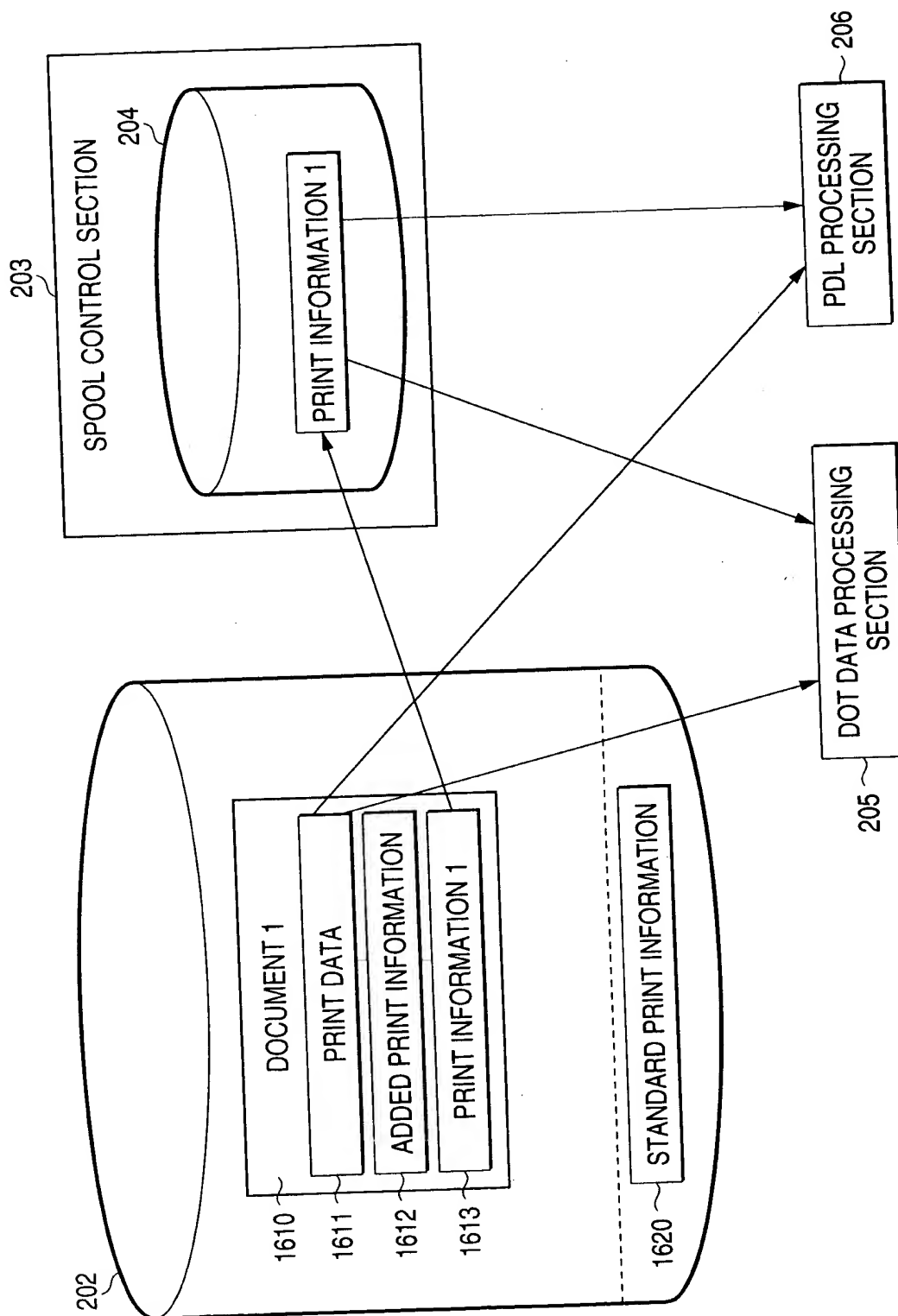


FIG. 18

Print

Document name: Document 1

Print information name 1710

Added print information 1711

Details

Number of print copies 1720

Print: 1 Copy

Selection of print mode 1730

☒ Print

☐ Storage

☐ Print after storage

OK 1740

Cancel 1741

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FIG. 19

Print

Document name: Document 1

Print information name

Standard print information ▼

Details

Number of print copies

Print: 1 Copy

Selection of print mode

☒ Print
☐ Storage
☐ Print after storage

OK

Cancel

3310

FIG. 20

Print information details	
Page assignment	
1810	<div>Paper thickness</div> <div>Automatic selection</div>
1820	<div>Paper feed section</div> <div>Automatic selection</div>
1830	<div>Paper discharge section</div> <div>Automatic selection</div>
1840	<div>Single side/double side print</div> <div> <input checked="" type="radio"/> Single side <input type="radio"/> Double side </div>
1850	<div>Binding position (Effective on double side print)</div> <div> <input checked="" type="radio"/> Long side binding <input type="radio"/> Short side binding </div>
1860	<div>Paper discharge offset</div> <div> <input type="radio"/> Yes <input checked="" type="radio"/> No </div>
1870	<div>Staple</div> <div>None</div>
1880	<div>Punch Hole</div> <div>No</div>
1890	<div>Fold</div> <div>None</div>
<div>Reset</div>	
<div>OK</div> <div>Cancel</div>	

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FIG. 21

Print information details

Page assignment

Paper thickness	<input type="text" value="Thin"/>
Paper feed section	<input type="text" value="Paper feed section 1"/>
Paper discharge section	<input type="text" value="Paper discharge section 2"/>
Single side/double side print	<input type="radio"/> Single side <input checked="" type="radio"/> Double side
Binding position (Effective on double side print)	<input checked="" type="radio"/> Long side binding <input type="radio"/> Short side binding
Paper discharge offset	<input checked="" type="radio"/> Yes <input type="radio"/> No
Staple	<input type="text" value="None"/>
Punch Hole	<input type="text" value="Two holes"/>
Fold	<input type="text" value="None"/>

3200

3201

FIG. 22

1910

Print information details

Page assignment

☐ 1up ☐ 2up ☒ 4up ☐ Saddle stitch

1920

Page assignment type

☒ Type 1

1	2
3	4

☐ Type 2

1	3
2	4

☐ Type 3

2	1
4	3

☐ Type 4

3	1
4	2

Reset

1900

OK Cancel

1901

FIG. 23

2010

Print information registration

New print information name: Print information 1

2020

OK Cancel

2021

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FIG. 24

Print

Document name: Document 1

Print information name

Print information

Details

Number of print copies

Print: 1 Copy

Selection of print mode

☐ Print
☐ Storage
☒ Print after storage

OK

Cancel

3410

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FIG. 25

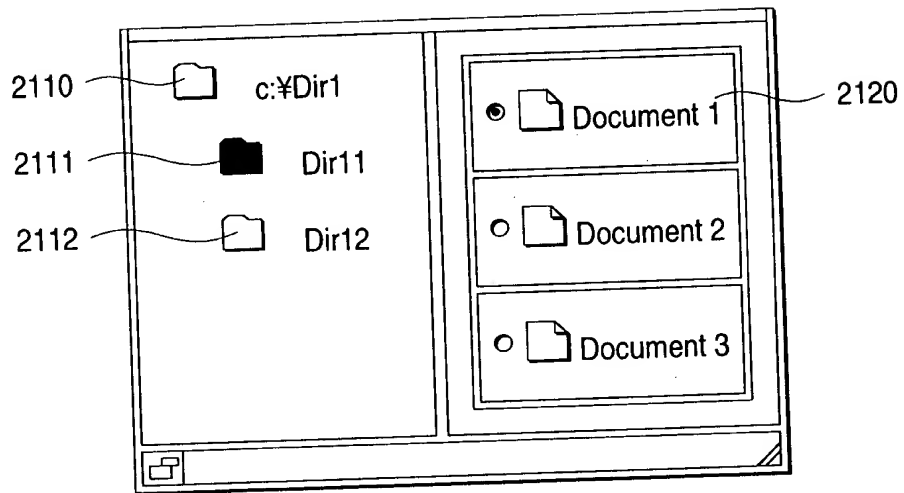


FIG. 26

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PRINT INFORMATION			SETTING EXAMPLE	
SETTING ITEM	CONTENTS	VALUE	CONTENTS	VALUE
PRINT MODE	PRINT	1	PRINT	PRINT MODE = 1
	STORAGE	2		
	PRINT & STORAGE	3		
NUMBER OF COPIES	n	INTEGER	1 COPY	COPIES = 1
PRINT IN COPY UNITS	YES	1	YES	COLLATE = 1
	NO	0		
PAPER THICKNESS	THIN	1	AUTOMATIC SELECTION	PAPER THICK = 0
	NORMAL	2		
	THICK	3		
	AUTOMATIC SELECTION	0		
PAPER FEED SECTION	PAPER FEED SECTION 1	1	AUTOMATIC SELECTION	INPUT TYPE = 0
	PAPER FEED SECTION 1	2		
	AUTOMATIC SELECTION	0		
PAPER DISCHARGE SECTION	PAPER DISCHARGE SECTION 1	1	AUTOMATIC SECTION	OUTPUT TYPE = 0
	PAPER DISCHARGE SECTION 1	2		
	AUTOMATIC SELECTION	0		
SINGLE SIDE/DOUBLE SIDE PRINT	SINGLE SIDE PRINT	0	SINGLE SIDE PRINT	DUPLEX = 0
	DOUBLE SIDE PRINT	1		
BINDING POSITION (EFFECTIVE ON THE DOUBLE SIDE PRINT)	LONG-SIDE BINDING	0	LONG-SIDE PRINT	TUMBLE = 0
	SHORT-SIDE BINDING	1		
PAPER DISCHARGE OFFSET	YES	1	NO	OUTPUT OFFSET = 0
	NO	0		
STAPLE	NONE	0	NONE	STAPLE = 0
	UPPER-LEFT CORNER OF PAPER IN PORTABLE ORIENTATION	1		
	UPPER-LEFT CORNER OF PAPER IN LANDSCAPE ORIENTATION	2		
	TWO-CENTER PARTS	3		
PUNCH HOLE	NONE	0	NONE	PUNCH = 0
	2 HOLES	2		
	3 HOLES	3		
FOLD	NONE	0	NONE	FOLD = 0
	FOLD IN TWO	1		
	FOLD IN Z	2		
PAGE ASSIGNMENT	1 UP	1	1 UP	ASSIGN PAGES = 1
	2 UP	2		
	4 UP	4		
	SADDLE STITCH	101		
PAGE ASSIGNMENT TYPE	TYPE 1	1	TYPE 1	ASSIGN TYPE = 1
	TYPE 2	2		
	TYPE 3	3		
	TYPE 4	4		
PRINT DATA STORAGE LOCATION	FILE NAME		c:\%arc%file1.ps	